



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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February 22, 2001

CERTIFIED RETURN RECEIPT

7000 0520 0021 7582 8593

William Moeller  
Clifton Mining Company  
70 West Canyon Crest Road, Suite D  
Alpine, Utah 84004

Re: Tentative Approval, Clifton Mining Company, Cactus Mill, M/045/049, Tooele County, Utah

Dear Mr. Moeller:

The Division has completed a review of your response to the conditions of the Division's September 26, 2000, conditional tentative approval letter for the Cactus Mill (copy attached w/response listed in italics). Your response has adequately addressed all conditions. The Division will now prepare to publish a formal notice of tentative approval in the appropriate Tooele and Salt Lake County newspapers. This will begin the required 30-day public comment period. If no substantive comments are received during the public comment period, we will then be prepared to issue final approval for this project after the required reclamation surety and Reclamation Contract documents are received.

The reclamation cost estimate as been adjusted to reflect recommended soil amendments. A copy of the estimate is attached. Please let us know what form of surety you wish to post so that we can send you the required forms. *The final surety amount and completed reclamation contract (form MR-RC previously sent to you) must be received by the end of the 30-day public comment period.*

If you have any questions in this regard please contact me, Tom Munson, Lynn Kunzler, or Doug Jensen of the Minerals Staff. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg  
Permit Supervisor  
Minerals Regulatory Program

jb

Attachment: Conditional Tentative Approval w/response

Reclamation cost estimate

m45-49-cond-apv response

*cc: Mike Ford. BLM*

0001

## **Conditional Tentative Approval**

**Clifton Mining Company  
Cactus Millsite**

**M/045/049  
(February 22, 2001)**

### **R647-4-106 - Operation Plan**

Clifton Mining Company requested that the Division assist in obtaining the soils and vegetation data. It is not possible for us to complete this task given our current work load. We can assist you with laboratory contacts and/or the names of possible consultants to consider, if you desire.

Identification of the area of the 0.83 acres of hydro-seeding will be necessary for the final reclamation contract. Please indicate where this area is located on the reclamation treatments map. *As per phone call with Keith Moeller on 2/6/01, hydroseeding will not be used at this site. This response is adequate. (LK)*

#### **106.5 Existing soil types, location, amount**

The plan submitted indicates that much of the native soil material was used in the dikes of the ponds. Please provide an estimate of the volume of soil materials within the dikes.

Please provide a laboratory analysis of the this soil material as well as any substitute soil material (e.g. tailings) that will be used in reclamation. Each soil material will need to be analyzed for each parameter on the attached list. (LK)

*Approximately 360 cu.yds. of soil in dikes, soil analysis shows material low in %OM and Phosphorus. Will need to amend with 100 lbs./ac. Of Diammonium phosphate fertilizer and 10 ton/ac. of composted manure. This response is adequate. (LK)*

#### **106.7 Existing vegetation - species and amount**

Please submit a vegetation survey that identifies the plant species and the percent of ground cover that exists (or is presumed to have existed) on the area affected by this operation. Since most of the operational area is already disturbed, this survey should be conducted on a representative undisturbed area located adjacent to the mill site. This survey is required to establish the reclamation success standards and to fine tune the revegetation plan. (LK)

*Vegetation cover estimated at 22.5%. Sagebrush is dominant species. This response is adequate. (LK)*

### **R647-4-113 - Surety**

Soil amendment is calculated at 10 tons/acre of composted manure. This amount will be adjusted if, as a result of soil testing, this level of nutrient will not be required. (DJ)

*Surety amount was adjusted to reflect soils data and need for amendments for reclamation (LK & DJ)*

1	RECLAMATION SURETY	TIME				
2	Clifton Mining Company		last revision	02/07/01		
3	Cactus Mill		filename M045-049.WB2			
4	M/045/049		Tooele County			
5	Prepared by Utah State Division of Oil, Gas & Mining					
6	-This estimate uses a D8 size dozer for most earthwork					
7						
17	last unit cost update 2-Aug-2000					
18	-Amount of disturbed area which will receive reclamation treatments =				8.9 acres	
19	-Estimated total disturbed area for this mine =				8.9 acres	
20	Activity	Quantity	Units	\$/unit	\$	Note
21	Safety gates, signs, etc. (mtls & installation)	1	sum	200	200	(1)
22						
23	Demolition of buildings & facilities	15000	CF	0.24	3,600	(2)
24	Debris & equipment removal - trucking	22	trips	50	1,100	(3)
25	Debris & equipment removal - dump fees	0	ton	55	0	(4)
26	Debris & equipment removal - loading trucks w/FE loads	24	hours	166	3,984	(5)
27	Demolition & debris removal - general labor	112	hours	15	1,680	(6)
28	Regrading facilities areas (1 ft depth)	1.0	acre	502	502	(7)
29	Demolish buildings with backhoe	24	hours	150	3,600	
34						
35	Ripping entire millsite prior to seeding	7.1	acre	234	1,661	(9)
38						
39	Ripping access roads - dozer	1.8	acre	234	421	(9)
41	Sidecast mtl replacement on steep roads- trackhoe	900	LF	1.09	981	(11)
42	Regrade tailings pond	2.47	acre	411	1,015	(10)
43						
44	Topsoil replacement - dozer	450	CY	0.50	225	(12)
47						
50	Composted manure (10 ton/acre)	8.9	acre	300	2,670	(00)
51	Broadcast seeding	8.9	acre	170	1,513	(00)
53	Hydroseeding		acre	800	0	(00)
54	Fertilizer (diammonium phosphate-100 lbs/acre)	8.9	acre	90	801	
55	General site cleanup & trash removal	6.4	acre	50	320	(00)
56						
57	Equipment mobilization	4	equip	1000	4,000	(00)
58						
59	Reclamation Supervision	5	days	386	1,930	(15)
60		Subtotal			30,204	
61	10% Contingency				3,020	
62		Subtotal			\$33,224	
	Escalate for 1 <sup>st</sup> year at 3.13% per yr - 2001	1,040			\$34,264	
	Escalate for 2 <sup>nd</sup> year at 3.13% per yr -2002	2,112			\$35,337	
	Escalate for 3 <sup>rd</sup> year at 3.13% per yr - 2003	3,218			\$36,443	
	Escalate for 4 <sup>th</sup> year at 3.13% per yr - 2004	4,359			\$37,583	
63	Escalate for 5 years at 3.13% per yr - 2005	5,535			\$38,760	
64		Total			\$38,760	
65		Rounded surety amount in yr 2005-\$			\$38,800	
66	Average cost per disturbed acre =	\$4,360				

**RECLAMATION SURETY ESTIMATE**

Clifton Mining Company

last revision

09/19/00

Cactus Mill

filename M045-049 WB2

M/045/049

Tooele County

Prepared by Utah State Division of Oil, Gas &amp; Mining

last unit cost update

08/02/00

**Note**

- (1) DOGM lump sum assumed
- (2) Means Heavy Construction Cost Data 2000, 02220-100-0100, mix of bldg. types, avg., excluding dump fees
- (3) Means 2000, 02225-730-5100, bldg demo, rubbish handling, \$0.50/CY permile for >8CY truck; assumed 100 miles round trip
- (4) Means 2000, 02225-740-0100, dump charges, typical urban city, tipping fees only, bldg construction mtl's
- (5) Rental Rate Blue Book 3Q/00, Cat 988B, 7CY \$85.64hr+\$39.60/hr, & Means 2000, Crew B-10U, loading trucks only\$40.87
- (6) DOGM assumed wage for unskilled general labor
- (7) Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (8) Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 100 ft push
- (9) Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (10) Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, used avg vol 0.5CY/LF-berm
- (12) Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 100 ft push
- (13) Means 2000 & Blue Book 3Q/00: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,
- (14) Means 2000 02320-200-2030: earthwork, hauling excavated or borrow material, off highway hauler, 22 CY, 1 mile round trip, no loading inclu
- (00) DOGM general estimate - mulching
- (00) DOGM general estimate - fertilizing
- (00) DOGM general estimate - manure \$16/ton delivered, \$14 ton/acre spreading
- (00) DOGM general estimate - broadcast seeding
- (00) DOGM general estimate - drill seeding
- (00) DOGM general estimate - hydroseeding
- (00) DOGM general estimate - site cleanup & trash removal
- (00) DOGM general estimate - equipment mobilization
- (15) Means 2000, 01300-700-0180, project manager, minimum \$1,930/wk